

NPDES Permit No. IL0002186

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

APR 06 '95
Expiration Date: ~~06/01/95~~ 1, 2000Issue Date:
Effective Date:

Name and Address of Permittee:

Commonwealth Edison Company
Environmental Services Department
Post Office Box 767, 35 FW
Chicago, Illinois 60690

Facility Name and Address:

Commonwealth Edison Company
Crawford Generating Station
3501 South Pulaski
Chicago, Illinois 60623
(Cook County)

Discharge Number and Name:

No. 001 Condenser Cooling Water
and House Service Water
No. 001(a) Demineralizer Regenerant Wastes
No. 001(b) Unit #7 and #8 Boiler Blowdown
and Boiler Drain
No. 001(c) Recirculating Wastewater
Treatment System Blowdown
No. 001(d) Intake Screen Backwash
No. 002 Area 14 Runoff (Boiler Room Area)

Receiving Waters

Chicago Sanitary and Ship Canal

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:FLR:sf/sp/790e

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Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS		CONCENTRATION		SAMPLE FREQUENCY	SAMPLE TYPE
	lbs/day		LIMITS mg/l			
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 Condenser Cooling Water and House Service Water***

This discharge consists of:

Approximate Flow

1. Condenser Cooling Water
2. House Service Water
3. Demineralizer Regenerant Wastes
4. Boiler Blowdown
5. Boiler Drain
6. Recirculating Wastewater Treatment System Blowdown
7. Intake Screen Backwash

414.5 MGD
9.0 MGD
0.038 MGD
0.055 MGD
Intermittent
1.05 MGD
Intermittent

Flow (MGD)**

Daily Continuous

Total Residual
Chlorine/Total Residual Oxidant*

0.2

1/week "Concentra-
tion Curve

Temperature See Special Condition 3

Daily Continuous

*See Special Conditions 4 and 13.

**Shall be reported as a monthly average and daily maximum.

***See Special Condition 15.

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FEB 15 1995Special Conditions**PUBLIC NOTICE**

11. The upset provisions of 40 CFR 122.41(n) are hereby incorporated by reference.
12. The Agency may modify this permit during its term to incorporate biomonitoring requirements and additional limitations or requirements based on the biomonitoring results. Modifications under this condition shall follow public notice and opportunity for hearing.
13. A discharge limit of 0.05 mg/l (instantaneous maximum) shall be achieved for total residual oxidant when bromine biocides are used for condenser biofouling control, in accordance with Special Condition 4, ~~as set forth in the permit~~.

~~Interim progress report~~~~February 10, 1995~~~~Final report~~~~March 1, 1995~~~~The permittee shall prepare a comprehensive thermal impact demonstration assessing the effects of cooling water discharges from this facility in conjunction with its other generating facilities on the Chicago Sanitary and Ship Canal and on the Des Plaines River. The study shall include:~~

13. Total residual oxidant shall be measured and reported in terms of total residual chlorine. Construction of treatment facilities which may be necessary to meet the limit for total residual oxidant may not be started until a construction permit has been issued by the Agency.
- The permittee shall prepare a comprehensive thermal impact demonstration assessing the effects of cooling water discharges from this facility in conjunction with its other generating facilities on the Chicago Sanitary and Ship Canal and on the Des Plaines River. The study shall include:

- a. Assessment of the physical characteristics of the affected waters relative to their ability to support and sustain aquatic life;
- b. Assessment of the thermal environment of the affected waters and the effects of the various heat inputs, and documentation of compliance with water quality standards;
- c. Assessment of waters, sediments, and organisms for toxic materials to determine the extent to which these materials may limit aquatic life; and
- d. Assessment of current populations of macrophytes, macroinvertebrates, and fishes.

Interim The demonstration shall be completed according to the following schedule:

1. Final report submitted to IEPA April 1, 1996 or other such date as agreed to by the Permittee, IEPA and USEPA.

15. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

16. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

*agreed by
appropriate 4/6/95 Fred DDS*

THIS PERMIT MAY BE MODIFIED UPON COMPLETION OF THIS DEMONSTRATION, AND ACCEPTANCE OR NON-ACCEPTANCE, TO INCLUDE DIFFERENT FINAL LIMITATIONS OR REQUIREMENTS WHICH ARE CONSISTENT WITH APPLICABLE LAWS, REGULATIONS, OR JUDICIAL ORDERS. THE AGENCY WILL PUBLIC NOTICE THE PERMIT MODIFICATION.